

# **AIRCRAFT DISPATCHER**

## **UNIT 7 – IAMS/CAHIS**

### **STUDENT WORKBOOK**

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#### **UNIT OBJECTIVES**

1. Describe IAMS/CAHIS and its uses.
2. Identify IAMS/CAHIS users.
3. Obtain and update IAMS/CAHIS.

## NOTES

## I. IAMS/CAHIS

- A. Initial Attack Management System (IAMS)/Computer-Aided Hazard and Information System (CAHIS)
- B. IAMS/CAHIS decreases the workload of dispatchers in assessing aviation data.
- C. IAMS/CAHIS increases the speed and accuracy of obtaining aviation information, providing for increased safety and efficiency.

## II. WHO SHOULD USE IAMS/CAHIS?

- A. Aviation Dispatchers
- B. Aviation Managers
- C. Federal Aviation Administration
- D. Military

## III. WHERE DO I GET IAMS/CAHIS?

- <http://www.nifc.blm.gov>
- Click on “Aviation”

#### IV. HOW DO I DOWNLOAD/UPDATE IAMS/CAHIS?

- A. Select “Installation/Update of IAMS software and data.”
- B. Select either “NIFC BLM” or US Forest Service” under the Install From the Web section.
- C. Select the “InstallShield Wizard” button to Install/Update.
- D. Click the “Next” button.
- E. Select “Install Now” then the “Install” button.
- F. Click the “Finish” button.

#### V. IAMS/CAHIS TOOLBARS

##### A. Button Bar

##### 1. Zoom In

Allows the user to “zoom into” an area of interest within the view (geographic area) that is displayed on the screen

To zoom into a specific area provides a view with greater detail.

- Fixed Method
- Free Method

NOTE: The Zoom option can also be accessed through “Zoom” on the Menu Bar or Ctrl + Z.

## 2. Distance Tool

Allows the user to select a series of points within the view (geographic area) that is displayed on the screen; the distance between each point is shown, as well as the total distance.

NOTE: The Distance option can also be accessed through “*Tools*” on the Menu Bar or Ctrl + D.

## 3. Overlays

Allows the user to add, remove, and modify overlays

The overlays are the features to display, such as BLM district boundaries, rivers, interstates, etc.

NOTE: The Overlays option can also be accessed through “*Select*” on the Menu Bar or Ctrl + O.

## 4. Display Parameters

Allows the user to modify the display parameters for the selected overlays

The display parameters are the attributes of the overlay and determine how the selected overlay will appear to the user when drawn.

Includes the scale, symbol, line, color, fill, and label

NOTE: The Display Parameters option can also be accessed through “*Select*” on the Menu Bar or Ctrl + P.

## 5. Mark Point

Allows the user to select a point on the map/view display by using the mouse

NOTE: The Mark Point option can also be accessed through “*Aviation*” on the Menu Bar or Ctrl + M.

Only one point can be marked at a time.

## B. Menu Bar

### 1. Settings Menu

Allows the user to set the startup and display options within IAMS/CAHIS

- Short Help

Allows the user to turn the short help on or off

- Legend

Allows the user to turn the legend on or off

The legend lists the selected overlays and the associated color and/or symbol for each.

The legend may not be needed in the office but is useful if printed and posted.

The legend can be moved using the click and drag procedure.

- Scale Bar

Allows the user to turn the scale bar on or off

The scale bar shows the linear distance of the current view.

Include if you are printing a map.

The scale will change with the zoom feature.

- Initial Map

Allows the user to identify the initial map; which is the map (or set of overlays) that will appear on the screen whenever the IAMS/CAHIS application is started

The last map saved is the map that will start up during the next IAMS/CAHIS launch.

- Initial View

Allows the user to identify the initial view; this is the view (or geographic area) that will appear on the screen whenever the IAMS/CAHIS application is started.

- Linear Units

Allows the user to select the measure of distance (either in kilometers, statute miles, or nautical miles) that will be displayed in the scale bar

Use nautical miles for aircraft dispatching.

- Default Font

Allows the user to select the font that will be used for the text throughout the IAMS/CAHIS application, such as in text for the legend and scale bar

- Screen Size

Allows the user to enter the width of their computer screen

## 2. Aviation Menu

Allows the user to select a point location on the map/view display and obtain aviation information from near that location

- Mark Point

Same as that on the Button Bar

- Enter Point

Allows the user to select a point by entering coordinates of the location

When “Enter Point” is selected, the Convert Coordinates dialog box from the Tools Menu is displayed.

- Dispatch

Displays the dispatch information for the previously defined point



- Hazards

Displays the hazard information for the previously defined point

- Settings

Allows the user to set the search distances that are used for the Dispatch and Hazards options

The distance default is set to 99 NM.

### 3. Tools Menu

Allows the user to obtain information about locations, as well s create a TFR

- Distance

Same as that on the Button Bar

- Print Distance

Allows the user to print the Distance Results information from the previous session using the Distance tool

- Enter/Edit TFR

Allows the user to create a new or edit an existing TFR

- Organization Entity (OE)  
Allows the user to enter or edit information about the user's "organizational entity" or office
- Airport/Airbase  
Allows the user to display airport and airbase information
- Aviation Boundaries  
Displays a list of aviation boundary information
- Military Training Routes  
Displays a list of MTR information
- Navigation Aids  
Displays a list of navigation aids information
- Special-Use Airspaces  
Displays a list of SUA information
- Convert Coordinates  
Same as discussed when entering a point

#### 4. Zoom

Allows the user to change the geographic area that is displayed (the view)

- Zoom In

Allows the user to magnify an area of interest with the view

- Recenter

Allows the user to center the view display on a new point—redraws the map

- Recenter Active

Allows the user to center the view display on the current “active point”

- Map Scale

Allows the user to select a new scale for the view

- Maximum

Allows the user to display the maximum area available to view—contiguous United States

- History

Identifies the previous views that have been displayed within the current IAMS/CAHIS session

## 5. Select Menu

Allows the user to select the overlays, modify the display parameters, select the background color of the display, redraw the display, and reopen the current map

- Overlays

Discussed previously under the Button Bar

- Display Parameters

Discussed previously under the Button Bar

- Background

Allows the user to change the color of the background of the IAMS/CAHIS screen display

- Redraw

Clears the screen and then redraws the current map on the screen

- Re-Open Current Map

Clears the screen and reopens the current map and draws it as if it was just defined.

## 6. Map Menu

Allows the user to create, open, save, or delete a map file (the set of overlays selected by the user), send the map or screen display to a printer, select the printer for printing the map or

text, see the information about the version of the software, or exit IAMS/CAHIS

- New  
  
Opens a new map and allows the user to select overlays to create a new map
- Open  
  
Allows the user to open an existing map definition file, which is then displayed
- Save As  
  
Allows the user to save the current map
- Delete  
  
Allows the user to delete a selected map definition file
- Print Map  
  
Prints the displayed map/view, including the informational line at the bottom of the IAMS/CAHIS window
- Print Screen  
  
Prints the entire IAMS/CAHIS window

- Select Map Printer

Sets the printing parameters that IAMS/CAHIS uses to print the map/view that is displayed

- Select Text Printer

Sets the printing parameters that IAMS/CAHIS uses to print the text information that is displayed

- About Maps

Displays version number, release date, and comments

- Exit

Closes the IAMS/CAHIS application and returns the user to the last accessed location in Windows

## 7. View Menu

Allows the user to create, open, save, or delete a view file (the geographic area that was selected by the user)

- New

Opens a new view, the Maximum view, which displays the entire area of the contiguous lower 48 United States

- Open

Allows the user to open an existing view definition file, which is then displayed

- Save As

Allows the user to save the current view

- Delete

Allows the user to delete a selected view definition file

## VI. EXERCISES

A. Exercise 1

B. Exercise 2

C. Exercise 3

D. Exercise 4

E. Exercise 5

F. Exercise 6

G. Exercise 7

## EXERCISE 1

An incomplete Aircraft Resource Order is provided for this exercise. As the ACDP, you have received the following request for aircraft: 2 Airtankers, 1 Lead plane, and 1 Air Attack.

1. Using the latitude and longitude from the Resource Order and IAMS/CAHIS, complete
  - Block 6
  - Block 11
    - Three VORs
    - Closest reload base
    - Other aircraft/hazards within 5 NM
2. Using IAMS/CAHIS, determine the closest force for each resource requested (default setting of 500 NM). Document the dispatch center of the closest resource in the TO/FROM box in Block 12.
3. Deconflict the airspace and create a TFR.



INCIDENT/PROJECT ORDER NUMBER		<b>RESOURCE ORDER</b>		INITIAL DATE/TIME 7/13/00 1300		2. INCIDENT/PROJECT NAME <b>GOLDRUSH</b>				3. INCIDENT /PROJECT ORDER NUMBER <b>NV-BMD-123</b>				4. OFFICE REFERENCE NUMBER <b>P47123 N123</b>											
5. DESCRIPTIVE LOCATION/RESPONSE AREA <b>Austin, NV</b>		6. SEC.		TWN		RNG		Base MDM		8. INCIDENT BASE/PHONE NUMBER <b>775 555-1234</b>				9. JURISDICTION/AGENCY <b>BLM</b>											
7. MAP REFERENCE		LAT.		39 38		FREQ		116 45		10. ORDERING OFFICE <b>CNC</b>															
11. AIRCRAFT INFORMATION		BEARING		DISTANCE		BASE OR OMNI		AIR CONTACT		FREQ		RELOAD BASE		OTHER AIRCRAFT/HAZARDS											
								Goldrush A/A		123.456		Goldrush IC													
12.		Request Number		Q T Y		RESOURCE REQUESTED		Needed Date/Time		Deliver To		To		Time		Agency ID		RESOURCE ASSIGNED		ETD ETA		RELEASED Date To		Time ETA	
A-1				1		AIR TANKER		IA		FIRE															
A-2				1		AIR TANKER		IA		FIRE															
A-3				1		LEAD PLANE		IA		FIRE															
A-4				1		AIR ATTACK		IA		FIRE															
13.		ORDER RELAYED		ACTION TAKEN		ORDER RELAYED		ACTION TAKEN		Req. No.		Date		Time		To/From		Req. No.		Date		Time		To/From	

## EXERCISE 2

An incomplete Aircraft Resource Order is provided for this exercise. As the ACDP, you have received the following request for aircraft: 2 Airtankers, 1 Lead plane, and 1 Air Attack. Complete the Resource Order by:

1. Using the Township/Range/Section from the Resource Order and IAMS/CAHIS, complete
  - Block 11
    - Three VORs
    - Closest reload base
    - Other aircraft/hazards within 5 NM
2. Using IAMS/CAHIS, determine the closest force for each resource requested (default setting of 500 NM). Document the dispatch center of the closest resource in the TO/FROM box in Block 12.
3. Deconflict the airspace and create a TFR.



### EXERCISE 3

An incomplete Aircraft Resource Order is provided for this exercise. As the ACDP, you have received the following request for aircraft: 2 Airtankers, 1 Lead plane, and 1 Air Attack. Complete the Resource Order by:

1. Using the VOR from the Resource Order and IAMS/CAHIS, complete
  - Block 6
  - Block 11
    - Closest reload base
    - Other aircraft/hazards within 5 NM
2. Using IAMS/CAHIS, determine the closest force for each resource requested (default setting of 500 NM). Document the dispatch center of the closest resource in the TO/FROM box in Block 12.
3. Deconflict the airspace and create a TFR.



## EXERCISE 4

An incomplete Aircraft Resource Order is provided for this exercise. As the ACDP, you have received the following request for aircraft: 2 Airtankers, 1 Lead plane, and 1 Air Attack. Complete the Resource Order by:

1. Using the latitude and longitude from the Resource Order and IAMS/CAHIS, complete
  - Block 6
  - Block 11
    - Three VORs
    - Closest reload base
    - Other aircraft/hazards within 5 NM
2. Using IAMS/CAHIS, determine the closest force for each resource requested (default setting of 500 NM). Document the dispatch center of the closest resource in the TO/FROM box in Block 12.
3. Deconflict the airspace and create a TFR.

<b>RESOURCE ORDER</b>		INITIAL DATE/TIME 7/13/00 1300		2. INCIDENT/PROJECT NAME <b>SHINN MNT</b>				3. INCIDENT /PROJECT ORDER NUMBER <b>CA-PNF-119</b>				4. OFFICE REFERENCE NUMBER <b>P54321 D321</b>													
5. DESCRIPTIVE LOCATION/RESPONSE AREA <b>Shinn Mountain</b>		6. SEC. TWN RNG Base MDM		8. INCIDENT BASE/PHONE NUMBER <b>619 213-4567</b>				9. JURISDICTION/AGENCY <b>FS</b>				10. ORDERING OFFICE <b>SIC</b>													
11. AIRCRAFT INFORMATION		LAT. 40 17		LONG. 120 04																					
BEARING		DISTANCE		BASE OR OMNI		AIR CONTACT		FREQUENCY		RELOAD BASE		OTHER AIRCRAFT/HAZARDS													
						Shinn A/A		123.456		Shinn IC															
12. Request Number		Ordered Date/Time		From To		Q T Y		RESOURCE REQUESTED		Needed Date/Time		Deliver To		To From		Agency ID		RESOURCE ASSIGNED		ETD ETA		RELEASED Date To		ETA Time	
A-1						1		AIR TANKER		IA		FIRE													
A-2						1		AIR TANKER		IA		FIRE													
A-3						1		LEAD PLANE		IA		FIRE													
A-4						1		AIR ATTACK		IA		FIRE													
13. ORDER RELAYED		ORDER RELAYED		ACTION TAKEN		ACTION TAKEN		ORDER RELAYED		ACTION TAKEN		ORDER RELAYED		ACTION TAKEN											
Req. No.		Date		Time		To/From		Req. No.		Date		Time		To/From											

## EXERCISE 5

An incomplete Aircraft Resource Order is provided for this exercise. As the ACDP, you have received the following request for aircraft: 2 Airtankers, 1 Lead plane, and 1 Air Attack. Complete the Resource Order by:

1. Using the Township/Range/Section from the Resource Order and IAMS/CAHIS, complete
  - Block 11
    - Three VORs
    - Closest reload base
    - Other aircraft/hazards within 5 NM
2. Using IAMS/CAHIS, determine the closest force for each resource requested (default setting of 500 NM). Document the dispatch center of the closest resource in the TO/FROM box in Block 12.
3. Deconflict the airspace and create a TFR.



INCIDENT/PROJECT ORDER NUMBER		<b>RESOURCE ORDER</b>		INITIAL DATE/TIME 7/13/00 1300		2. INCIDENT/PROJECT NAME <b>MILL CREEK</b>				3. INCIDENT /PROJECT ORDER NUMBER <b>CA-LNF-0444</b>				4. OFFICE REFERENCE NUMBER <b>P54441 R441</b>			
5. DESCRIPTIVE LOCATION/RESPONSE AREA Mill Creek, CA		6. SEC. 26		TWN 28N		RNG 8E		Base MDM		8. INCIDENT BASE/PHONE NUMBER <b>619 213-4567</b>				9. JURISDICTION/AGENCY FS			
7. MAP REFERENCE		LAT.		AIR CONTACT		FREQUENCY		Ground Contact		FREQUENCY		RELOAD BASE		10. ORDERING OFFICE LNF			
11. AIRCRAFT INFORMATION		BASE OR OMNI		AIR CONTACT		FREQUENCY		Ground Contact		FREQUENCY		RELOAD BASE		OTHER AIRCRAFT/HAZARDS			
BEARING		DISTANCE		Mill Creek A/A		123.456		Mill Creek IC		170.00							
12. Request Number		Q T Y		RESOURCE REQUESTED		Needed Date/Time		Deliver To		Agency ID		RESOURCE ASSIGNED		ETD/ETA			
A-1		1		AIR TANKER		IA		FIRE						Time			
A-2		1		AIR TANKER		IA		FIRE						Time			
A-3		1		LEAD PLANE		IA		FIRE						Time			
A-4		1		AIR ATTACK		IA		FIRE						Time			
13. ORDER RELAYED		ACTION TAKEN		ORDER RELAYED		ACTION TAKEN		ORDER RELAYED		ACTION TAKEN		ORDER RELAYED		ACTION TAKEN			
Req. No.		Date		Time		To/From		Req. No.		Date		Time		To/From			

## EXERCISE 6

An incomplete Aircraft Resource Order is provided for this exercise. As the ACDP, you have received the following request for aircraft: 2 Airtankers, 1 Lead plane, and 1 Air Attack. Complete the Resource Order by:

1. Using the VOR from the Resource Order and IAMS/CAHIS, complete
  - Block 6
  - Block 11
    - Closest reload base
    - Other aircraft/hazards within 5 NM
2. Using IAMS/CAHIS, determine the closest force for each resource requested (default setting of 500 NM). Document the dispatch center of the closest resource in the TO/FROM box in Block 12.
3. Deconflict the airspace and create a TFR.



## EXERCISE 7

An incomplete Aircraft Resource Order is provided for this exercise. As the ACDP, you have received the following request for aircraft: 2 Airtankers, 1 Lead plane, and 1 Air Attack. Complete the Resource Order by:

1. Using the latitude and longitude from the Resource Order and IAMS/CAHIS, complete
  - Block 6
  - Block 11
    - Three VORs
    - Closest reload base
    - Other aircraft/hazards within 5 NM
2. Using IAMS/CAHIS, determine the closest force for each resource requested (default setting of 500 NM). Document the dispatch center of the closest resource in the TO/FROM box in Block 12.
3. Deconflict the airspace and create a TFR.



## NOTES